ÇANKAYA UNIVERSITY
Faculty of Engineering
Department of Industrial Engineering

COURSE SYLLABUS

Course Code	: IE 402	Semester	: Fall 2021
Course Title	: Supply Chain Management	Sections	: 01
Credit	: (3 0 3) ECTS: 5	Type of Course	: Technical Elective
Course Web Site	: webonline.cankaya.edu.tr		

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COURSE DESCRIPTION

This course gives an understanding of the basic concepts, techniques and algorithms for planning and coordinating the supply chain systems. Moreover, it serves an opportunity to practice the tools taught in operations research and production planning courses.

COURSE OBJECTIVES

Some of the objectives of this course are as follows:

1. To teach the components of supply chain and their interactions.
2. To practice analytical problem solving techniques to develop solutions for supply chain management and design problems.
3. To develop an understanding of information technology and electronic commerce in supply chain management.
4. To develop the ability to design logistics systems and develop an integrated supply chain strategy.
5. To emphasize the importance of systems thinking and global optimization.

LECTURES

Lectures will be held on Wednesdays at 09:20-12:10 @ NA06.

COURSE TEXTS

1) **Main text:** Chopra, Sunil and Peter Meindl. *Supply Chain Management: Global Edition, 7/E*. Prentice Hall, 2019. ISBN: 978129225789. (main text)
2) **Reference text**: Morgan Swink, Steven Melnyk, M. Bixby Cooper, Janet L. Hartley. Managing Operations Across the Supply Chain: Second Edition, McGraw-Hill. 2014
3) **Reference text**: Ballou, Ronald H., *Business Logistics/Supply Chain Management*, 5/E. Prentice Hall, 2004.

TENTATIVE COURSE SCHEDULE

Every student should check course web site regularly; and is responsible for the material of the week, and announcements made at the course web site.

Week	Lecture (Topic)	Material/To-do
1	Understanding the Supply Chain and Strategic Fit	Ch 1
2	Supply Chain Drivers and Metrics	Ch 2
3	Designing Distribution Networks	Ch 3
4	Network Design in the Supply Chain	Ch 4
5	Designing Global Supply Chain Networks	Ch 5
6	Coordination in a Supply Chain	Ch 6
7	Advanced EOQ Analysis	Ch 10
8	Cycle Inventory	Ch 11
9	Safety Inventory	Ch 11
10	Safety Inventory and Product Availability Relationship	Ch 12
11	Determining the Optimal Level of Product Availability	Ch 12
12	Transportation in a Supply Chain	Ch 14
13	Sourcing Decisions in a Supply Chain	Ch 15
14	Information Technology and Sustainability	Ch 17

Attendance:

- Minimum required attendance to lectures is 45%. However, it is strongly recommended to attend all the lecture hours.
- Attendance will be taken with signatures in person or in class Moodle activities.

Conditions that may lead to the letter grade "NA":

- Not attending the Midterm Exam and the Final Exam.
- Having less than 45% attendance to lectures.

TENTATIVE GRADING (*)

Assessment Tool	Quantity	Percentage
Homework Assignments	3	30
Midterm Exam	1	30
Final Exam	1	40

(*) Instructor reserves the right to change the grading policy

In this course, class participation and homework assignments play a crucial role in ensuring that students understand the material discussed in lectures. In doing homework assignments students can work in teams of **at most two** students. To use and pass off the ideas or work of another team as one's own is NOT acceptable.